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# VR 220/07



Let's make things better.



PHILIPS

### The remote control



TV	<b>To call up additional TV functions</b> : Additional TV functions for TV sets with the same remote control code (RC5)
STANDBY/ON	Switch on or off: Switching device on/off, cancelling function, Cancelling programmed recordings (TIMER)
CHILD LOCK o-	Child lock: To switch child lock on/off
MONITOR	<b>TV monitor</b> : To switch between TV reception and VCR playback
EJECT 📥	Eject: To eject a cassette
0-9	Number buttons: 0 - 9
TURBO TIMER	<b>TurboTimer</b> : To programme a recording with the function Turbo Timer
TIMER ଏ	<b>TIMER</b> : To make a TIMER programming with VIDEO Plus+ or to alter or clear a programmed TIMER
MENU	Menu: To call up or end main menu
ок	Store/Confirm: To store or confirm entry
←⊿-	Select: Cursor left
⊿+→	Select: Cursor right
P <b>†</b> +	Select: To select the next line or programme number
₽↓—	Select: To select the previous line or programme number
SELECT	Select: Selecting functions
CLEAR (CL)	Delete: To delete last entry/Clear programmed recording (TIMER)
PLAY ►	Playback: To play a cassette
⊲∢	<b>Rewind</b> : During STOP and STANDBY: rewind, during PLAYBACK: reverse scanning
STOP	Pause/Stop: To stop the tape, except during TIMER-recording
$\blacktriangleright \triangleright$	<b>Forward wind</b> : During STOP and STANDBY: forward wind, during PLAYBACK: forward scanning
INDEX 🕨	Index search: In combination with $\triangleleft \downarrow \rightarrow \triangleright$ : to search for previous or next recording on the cassette
RECORD/OTR ●	Record: To record the TV channel selected at this moment
STILL 🛏	Still picture: To stop the tape and show a still picture

### Additional TV functions

Hold down **TV** and select the corresponding function using the following buttons.

STANDBY/ON	Standby: To switch off the TV
MUTE Ҝ	<b>TV sound off</b> : To switch the sound on or off
P↑+	Select: To select a programme number
P↓—	Select: To select a programme number
←⊿-	TV volume: TV volume down
⊿+→	TV volume: TV volume up

### Front of the device



STANDBY/ON ෆ්/I	<b>Switch on or off</b> : To switch off or on, interrupt a function, interrupt a programmed recording (TIMER)
RECORD ●	Record: To record the TV channel selected at this moment
PROGRAMME -	Select: One line or programme number down
PROGRAMME +	Select: One line or programme number up
STOP/EJECT ■/▲	Pause/Stop, eject cassette: To stop the tape and eject the cassette
4	<b>Rewind</b> : During STOP and STANDBY: rewind, during PLAYBACK: reverse scanning
•	Playback: To play a cassette
$\blacktriangleright \triangleright$	<b>Forward wind</b> : During STOP and STANDBY: forward wind, during PLAYBACK: forward scanning

## The symbols on your video recorder display

••••••	DATE	START	PROG.	END	VPS/PDC
$\sim O(4)$	$\mathbf{V}$	W.	$\nabla$	W.	
	iλί	ійі <sup>:</sup>	iĂ	iλi:	<b>HH</b>

These symbols can light up on your video recorder display:

	This is where the current operating mode is shown as a symbol.
LP	When you have switched on the LP (Long Play) function or when you play a tape that has been recorded in LP (Long Play).
<b>9-</b>	When you have switched on the child lock.
&	When a satellite recording has been programmed.
DEC	When a decoder has been allocated to the TV channel (currently selected programme number on the video recorder) you have currently selected on the video recorder.
0	When you are making a recording.
Q	When you have programmed a recording or when a programmed recording is being made.
D	When you are programming daily recordings.
w	When you are programming weekly recordings.
00	When you have put a cassette in the video recorder.
DATE	When the date of the programmed recording is shown.
START	When the start time of the programmed recording is shown.
PROG.	When the programme number of the programmed recording is shown.
END	When the end time of the programmed recording is shown.
VPS/PDC	Video Programming System / Programme Delivery Control: when a VPS or PDC code is being transmitted.
N X: X. X	Display of programme number of the TV channel / tape position / channel name / function.
00	Tape position in seconds.

## Introduction



#### Dear Philips customer,

Instruction manuals are usually very dry since they are technically-oriented and often poorly translated. I have been employed by Philips for this reason.

Allow me to introduce myself.

My name is Phil. I will be guiding you through the instruction manual and try to be of help in operating your new device. At appropriate points along the way, I will be providing you with the following information:



**Excuse me?** Here I will be explaining seemingly unimportant things.



Tip Here I will be giving you instructions on functions that help make it easier to use your device.



**Problem** Here I will help you to find the cause of problems and their solutions.



For experts Here I will be giving you instructions on functions that are necessary for special applications.

I hope you have lots of fun with your new device.



P.S. If you have questions or if problems come up during operation, please see the helpful information in the chapter 'Before you call an engineer'. If this doesn't help you to resolve the problem, please call the **customer support service** for your country. The corresponding telephone numbers and e-mail addresses can be found on the last page of this instruction manual.



#### Welcome to the large family of owners of PHILIPS VHS video recorders.

Thank you for buying a VR220/07.

Please take the time to read this operating manual before using your video recorder. It contains important information and notes regarding operation.

The video recorder should **not be turned on immediately after transportation** from a cold to a hot area or vice versa, or in conditions of extreme humidity.

Wait at least **three hours** after transporting the device. The video recorder needs this time in order to become acclimatised to its new environment (temperature, air humidity, etc.).

Your Philips team hopes that you will enjoy using your new video recorder.



This video recorder is used for the recording and playback of VHS video cassettes. Cassettes with the VHS-C label (VHS cassettes for camcorders) may only be used with a suitable adapter.

This product complies with the requirements of Directive 73/23/EEC +89/336/EEC +93/68 EEC.

### **Specifications**

Voltage: 220-240V/50Hz Energy consumption : 12,5W Energy consumption (Standby): less than 4W (clock display switched off) Rewind time: approx. 100 seconds (cassette E-180)

Dimensions in cm (B/H/T): 38.0/9.3/26.0 Number of video heads: 2 Recording/playback time: 4 hours (SP) (cassette E-240) 8 hours (LP) (cassette E-240)

#### Supplied accessories

Operating instructions Remote control and batteries Antenna cable Power cable Quick install guide

### Important notes regarding operation



#### Danger: High voltage!

#### Do not remove the top cover as there is a risk of an electrical shock!

The video recorder does not contain any components that can be repaired by the customer. Please leave all maintenance work for qualified personnel.

As soon as the video recorder is connected to the power supply, there are some components that are in constant operation. To switch off the video recorder completely you must disconnect it from the power supply.

These operating instructions have been printed on non-polluting paper.

Deposit old batteries at the appropriate collection points.

Please make use of the facilities available in your country for disposing of the packaging of the video recorder in a way that helps to protect the environment.

This electronic device contains many materials that can be recycled. Please enquire about the possibilities for recycling your old device.



Make sure that air can circulate freely through the ventilation slots on the video recorder. Do not place the device on an unsteady base.

Make sure that no objects or liquids enter the video recorder. Do not place vases or the like on the video recorder. If liquid is spilt into it, immediately disconnect the video recorder from the power supply and call After-sales Service for advice.

Do not place any combustible objects on the device (candles, etc.).

Make sure that children do not place any foreign objects within the openings or ventilation slots.

Introduction



## Special functions of your new video recorder

Your PHILIPS video recorder is not just for recording and playing back VHS cassettes. It also has a whole range of special functions which will make the day-to-day use of your new video recorder much easier.



Plå

Philips has developed a system which produces the best possible playback quality. For old and often-used video cassettes, this system reduces interference. For new or high quality cassettes, it emphasises the details.

When you connect your video recorder to your television and plug it into the wall socket, you will be welcomed with a screen menu. All you have to do is follow the instructions in the 'intelligent help line' for the next step. Enjoy the automatic TV channel search/save function and the automatic time setting.

Follow TV	This function automatically transfers all the television channel settings onto your video recorder.
Record Link	Recordings made on your video recorder can be controlled by an external satellite receiver.
Direct Record	Your video recorder can ascertain which channel is currently playing on your television and record from it at the touch of a button.
TURBO <b>▼</b> DRIVE	The precision tape drive from Philips provides short rewind times and automatic tape length recognition.



Simple programming system for video recorders. Makes programming as easy as making a telephone call. Simply enter the number code associated with your television programme. This number is located in your favourite television listings magazine.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation. The VIDEO Plus+ system is manufactured under licence from Gemstar Development Corporation.

So that you can identify your machine for service questions or in the event of theft, enter the serial number here. The serial number (PROD.NO.) is printed on the type plate fixed at the back of the device.

MODEL NO.	VR220/07	PHILIPS
PROD. NO.		

## ENGLISH

## Important information for customers in Great Britain

This set is fitted with an approved moulded 13 amp plug. To change the fuse in this plug or to attach a different plug, please proceed as follows:



Take off the fuse cover and remove the old fuse.



Insert a new fuse. Suitable fuses are those of the type BS 1362 3A, A.S.T.A. standard or BSI standard.



Close the fuse cover.

If the attached plug does not meet your requirements, you can cut it off and replace it with a suitable plug. Please observe the following conditions:

If your new plug uses a built-in fuse, this should be a 3A fuse.

If your new plug does not contain a built-in fuse, please do not use any fuses in your fusebox with a rating of more than 5A.

Please destroy the old, cut-off plug so that it cannot be used elsewhere.

Connect the blue cable (neutral 'N') to the terminal in the plug which is marked with the letter 'N' or coloured black.

Connect the brown cable (live, 'L') to the terminal in the plug which is marked with the letter 'L' or coloured red.

Do not in any circumstances connect either of the two cables to the terminal in the plug which is marked with the letter 'E', the symbol "\" or coloured green or green / yellow.

Before you refit the plug cover, make sure, that the grip at the bottom of the plug is clamped over the plastic cover of the lead, not just over the two wires.

**2** Connecting the video recorder

## Preparing the remote control for operation

The remote control and its batteries are packed separately in the original video recorder packaging. You must install the batteries in the remote control before use - described in the following section.



0

Take the remote control and the enclosed batteries (2 batteries).

Open the remote control's battery compartment and place the batteries in it as shown in the picture and close the battery compartment.

The remote control is now ready to use. Its range is approximately 5 meters.

## Connecting your video recorder to the TV set

The necessary cable connections must be made before you can record or playback TV programmes using your video recorder.

We recommend that you use a scart cable to connect your TV set and video recorder.



#### What is a scart cable?

The scart or Euro AV cable serves as the universal connector for picture, sound and control signals. With this type of connection, there is practically no loss of quality during the picture or sound transfer.



When you install your video recorder for the first time, select one of the following options:

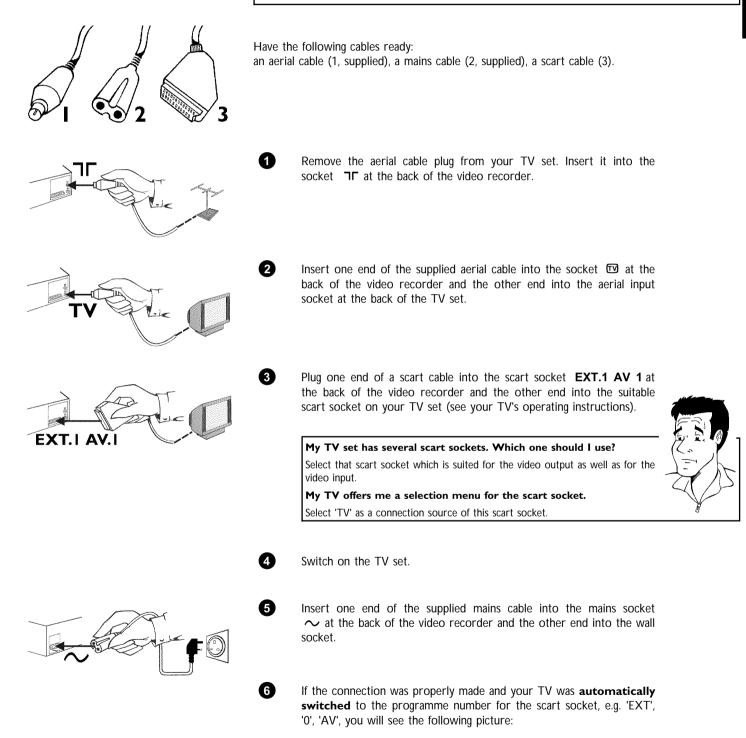
'Connecting with a scart cable'

If your TV set has a scart socket and you are using a scart cable.

**'Connecting without a scart cable'** If you do **not** wish to use a scart cable.

## ENGLISH

### Connecting with a scart cable



CONGRATULATIONS YOU NOW OWN A NEW PHILIPS VIDEO RECORDER

CONTINUE→OK

#### × My screen is empty

- Many TV sets are switched to the programme number for the scart socket by way of a control signal sent through the scart cable.
- If the TV set does not automatically switch to the scart socket programme number, manually change to the corresponding programme number on your TV set (see your TV's operating instructions).



Then, read the paragraph 'Initial installation' in the chapter 'Installing your video recorder'.

### Connecting without a scart cable

Have the following cables ready: an aerial cable (1, supplied), a mains cable (2, supplied).

Switch off your TV set.

2

3

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Remove the aerial cable plug from the aerial input socket of the TV set. Insert it into the socket **T** at the back of the video recorder.

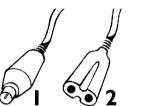
Insert one end of the supplied aerial cable into the socket 🗹 at the back of the video recorder and the other end into the aerial input socket at the back of the TV set.

Insert one end of the supplied mains cable into the mains socket  $\sim$  at the back of the video recorder and the other end into the wall socket.

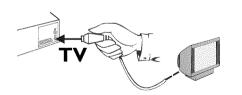
Switch on your TV set and select the programme number used for video playback on your TV set (see your TV's operating instructions).

Which programme number is used for video recorder operation? To ensure the stability of the television picture during cassette playback (prevention of waves or streaks), special programme numbers have been set aside on the TV for the use of video recorders. This is usually the highest possible programme number, e.g. '12', '16', '99' or even programme number '0'. For more information, please see your TV's operating instructions.

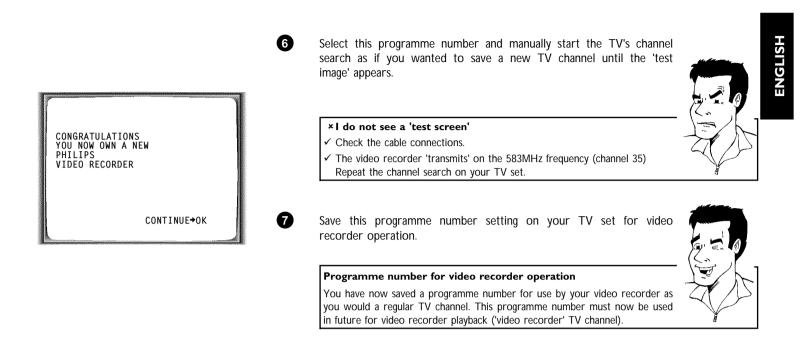








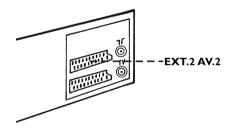




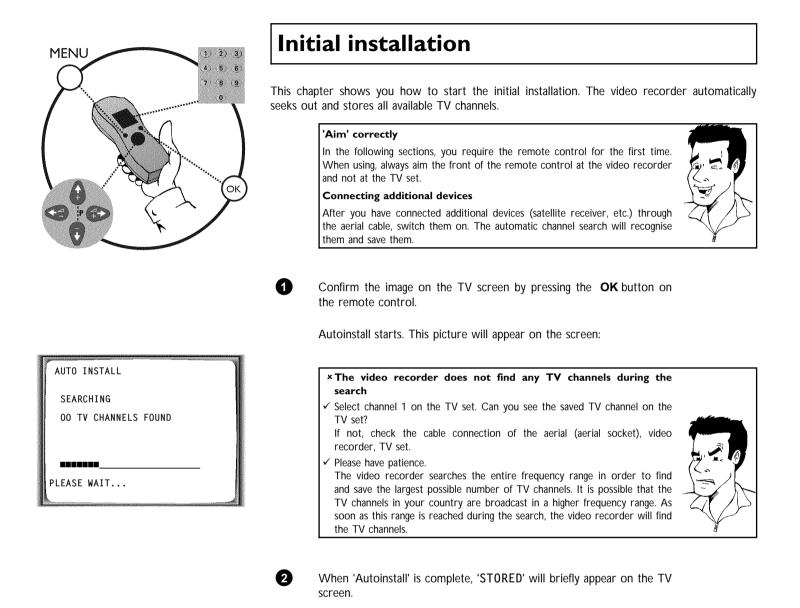
You can find more details in chapter 'Initial Installation'.

#### **Connecting additional devices**

You can connect additional devices such as decoders, satellite receivers, camcorders, etc. to the socket **EXT.2 AV 2**.



# **3** Installing your video recording



The initial installation is now complete.

Check the date and time. Please read 'Setting the time and date' in this chapter.

#### Satellite receiver

If you are connecting a satellite receiver, please read the section 'Using the satellite receiver'.

#### Decoder

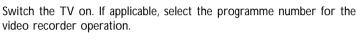
If you are connecting a decoder, you must install it as described in the next section.



ENGLISH



Some TV channels transmit encoded TV signals which can only be viewed with a commercially purchased or hired decoder without disturbances. You can connect such a decoder (descrambler) to this video recorder. The following function will automatically activate the connected decoder for the desired TV channel.



- 2 Use the buttons P↑+, P↓- on the video recorder or the number buttons 0-9 on the remote control to select the TV channel which you would like to allocate the decoder to.
  - Press the button **MENU** on the remote control. The main menu will appear.
- 4 Use the buttons  $P^+$  or  $P^+$  to select the line 'MANUAL SEARCH' and confirm with OK.
- **5** Use the buttons  $P \downarrow -$  or  $P \uparrow +$  to select the line 'DECODER'.

Use the buttons  $\leftarrow \bigtriangleup -$  or  $\bigtriangleup + \rightarrow$  to select 'ON' (Decoder switched on).



How can I switch off the decoder? Use the button  $\checkmark + \rightarrow$  on the screen to select '0FF' (Decoder switched off).



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Confirm with OK.

End with the button **MENU**.

VPS/PDC HHE 1 DEC

MANUAL SEARCH

PROGRAMME NUMBER

S-CHANNEL CHANNEL NUMBER DECODER

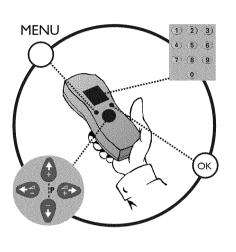
EXIT→MENU

← P01

STORE**→**OK

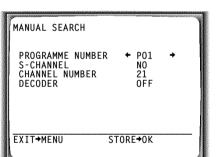
N0 21 0FF

> The decoder has now been allocated to this TV channel. If this TV channel is chosen, the symbol 'DEC' will appear in the video recorder display.



### Manual TV channel search

In some cases it could occur that all of the TV channels were not found and saved during the initial installation. In this case, the missing or coded TV channels must be searched for and stored manually.



Switch on the TV set. If required, select the programme number for the video recorder.

2

Press **MENU** on the remote control. The main menu will appear.

Select line 'MANUAL SEARCH' using P ↓ – or P ↑ + and confirm with **OK**.



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Select line 'PROGRAMME NUMBER' using  $P \downarrow -$  or  $P \uparrow +$ .

Using  $\leftarrow \bigtriangleup =$  or  $\bigtriangleup + \rightarrow$ , select the desired programme number that you want to use for the TV channel, e.g. 'P01'.

6 In line 'S-CHANNEL', select the desired display using  $\frown + \rightarrow$ .

#### What is hidden behind the settings?

'NO': Display/Entry of channels YES': Display/Entry of special channels



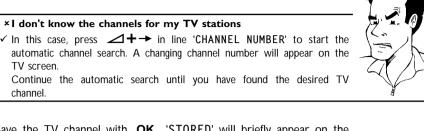
#### What is a special channel?

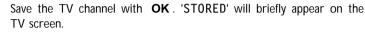
TV channels are transmitted in certain pre-defined frequency ranges. These ranges are divided into channels. A specific frequency/channel is assigned to each TV station. Certain frequency ranges are specified as special channels (hyperband channels).





In line 'CHANNEL NUMBER', enter the channel of the desired TV station using the number buttons 0-9.

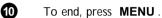






8

To search for other TV channels, begin again at step 3.



#### Using the satellite receiver

TV channels from a satellite receiver (connected to the scart socket **EXT.2 AV 2**) are received on the video recorder on programme number  $'\mathcal{E}\mathcal{Z}'$ .

To do this, select programme number ' $\mathcal{E}$  1' with **0** on the remote control and then select programme number ' $\mathcal{E}\mathcal{Z}$ ' with **P**  $\downarrow$  **-**.

You should select the TV channels to be received by the satellite receiver directly on the receiver itself.

## Sorting TV channels automatically (Follow TV)

When the automatic channel search function is activated, the TV channels are saved in a specific order. This may vary from the order of TV channels on the TV set.

This function changes the order of TV channels saved in the video recorder to match that of the TV set.

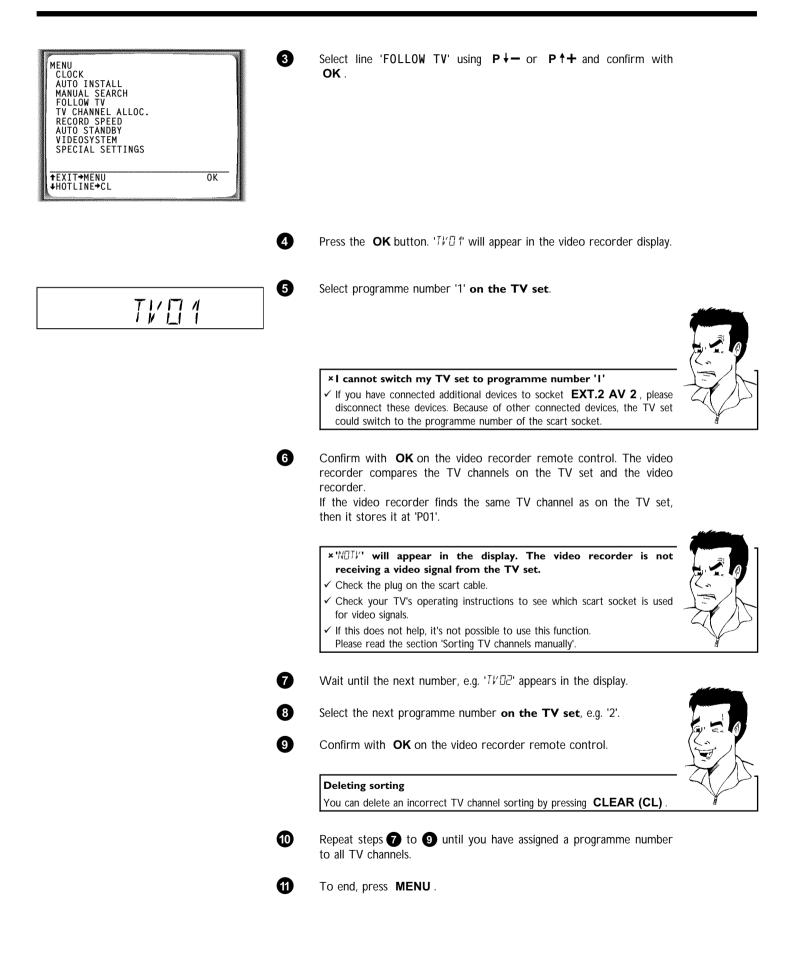
This only works if the video recorder (socket  $EXT.1 \ AV \ 1$ ) and the TV set are connected with a scart cable.



Switch on the TV set. If required, select the programme number for the video recorder.



Press the **MENU** button on the remote control. The main menu will appear.



MENU	Automatic TV channel search (Autoinstall)				
	During installation, all available TV channels are searched for and saved. If the channel assignments of your cable or satellite TV provider change or if you are reinstalling the video recorder, e.g. after moving house, you can start this procedure again. This will replace the TV channels already saved with the new ones.				
	<b>1</b> Switch on the TV set. If required, select the programme number for the video recorder.				
	2 Press the <b>MENU</b> button on the remote control. The main menu will appear.				
	3 Select line 'AUTO INSTALL' using P↓ – or P↑+.				
	Press OK .				
AUTO INSTALL SEARCHING OO TV CHANNELS FOUND	<b>5</b> 'Autoinstall' starts. Wait until all TV channels have been found. This can take several minutes.				
PLEASE WAIT					
	6 When Autoinstall is complete, 'STORED' will briefly appear on the TV screen. Date and time have been set and saved.				
	To end, press MENU.				

You can read about how to search for a TV channel manually in the section 'Manual TV channel search'.

ENGLISH

#### **Monitor function**

You can switch back and forth between the TV picture and video recorder picture with **MONITOR**. But this only works when you use a scart cable to connect the video recorder to your TV set and your TV set responds to this switch-over.

### Sorting and clearing TV channels manually

After you have performed the automatic channel search you may not agree with the sequence in which the individual TV channels have been allocated to the programme positions (programme numbers) of the video recorder. You can use this function to individually sort the TV channels already saved or to delete unwanted TV channels or those with poor reception.

- Switch on the TV set. If required, select the programme number for the video recorder.
  - Press **MENU** on the remote control. The main menu will appear.
  - Select line 'TV CHANNEL ALLOC.' using  $P \downarrow -$  or  $P \uparrow +$ .
  - Confirm with OK.

0

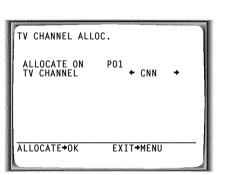
3

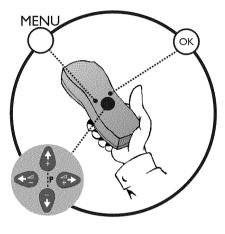
4

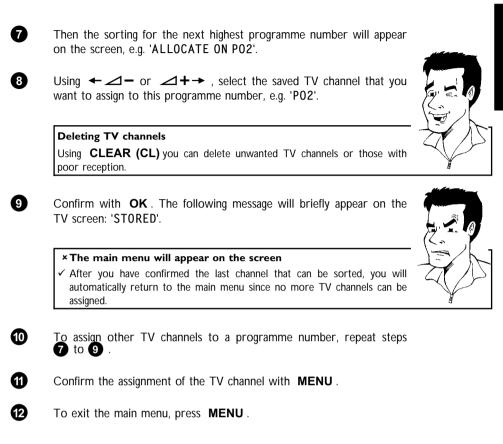
6

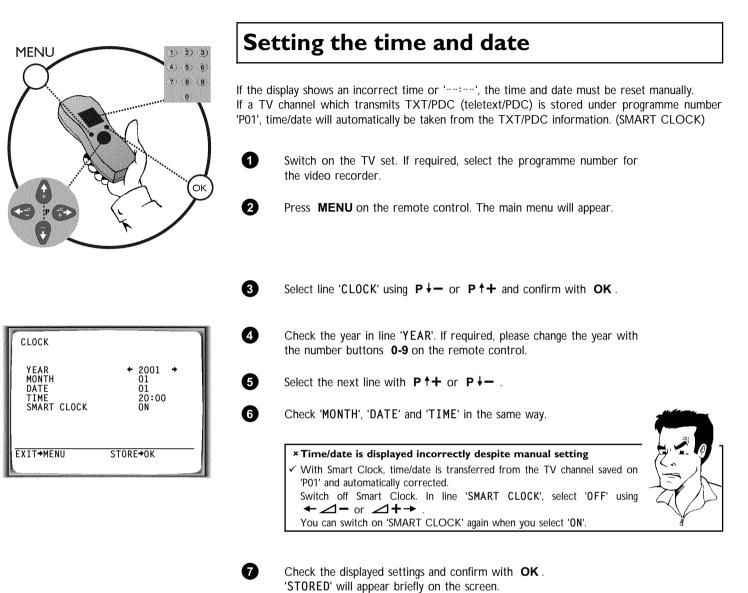
6

- Using  $\leftarrow \square -$  or  $\square + \rightarrow$ , select the saved TV channel that you want to assign to the programme number 'P01'.
- Confirm with **OK**. The following message will briefly appear on the TV screen: 'ALLOCATED ON PO1'.











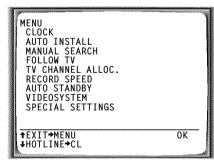
To end, press MENU.

Important notes for operation

Switching on	You can switch on the video recorder with the <b>STANDBY/ON</b> $\circ$ button, the number buttons <b>0-9</b> or by putting in a cassette.		
Automatic switch-off	If the video recorder is not used for several minutes, it switches itself off automatically. This function can be deactivated (e.g. if you want to use the video recorder as a TV receiver). For more information, please read the section 'Automatic switch-off' in chapter 'Additional functions'.		
Time in the display	If you have switched the video recorder off with <b>STANDBY/ON</b> $\textcircled{O}$ , the time will show in the display, e.g. '18:00'. If the clock has not been set, ':' will appear. When the video recorder is switched off and the time isn't shown in the video recorder display, the clock display may be switched off. You will find more information in the chapter 'Additional functions' section 'Switch off the clock display'.		
Energy consumption	The video recorder should always be connected to the mains so as not to affect the use of the TV or programmed recordings. Your video recorder uses less than 4W (with clock display switched off).		
Power outage/no power	Channel information remains saved for up to 1 year, the time and timer information is saved for up to 3 hours.		
Emergency exit	The video recorder and the remote control have the option of an 'Emergency exit'. You can use the <b>STANDBY/ON</b> button to interrupt any function or step during use. You can operate your device without worry. There is no risk whatsoever of damaging the video recorder by performing user steps incorrectly.		

#### Navigation in the screen menu

You can check/change many functions and settings of your video recorder via the screen menu. The individual functions are selected as follows:



Call ι	up the	menu:	with	MENU .
--------	--------	-------	------	--------

```
To select: with \mathbf{P} \downarrow - or \mathbf{P} \uparrow +
```

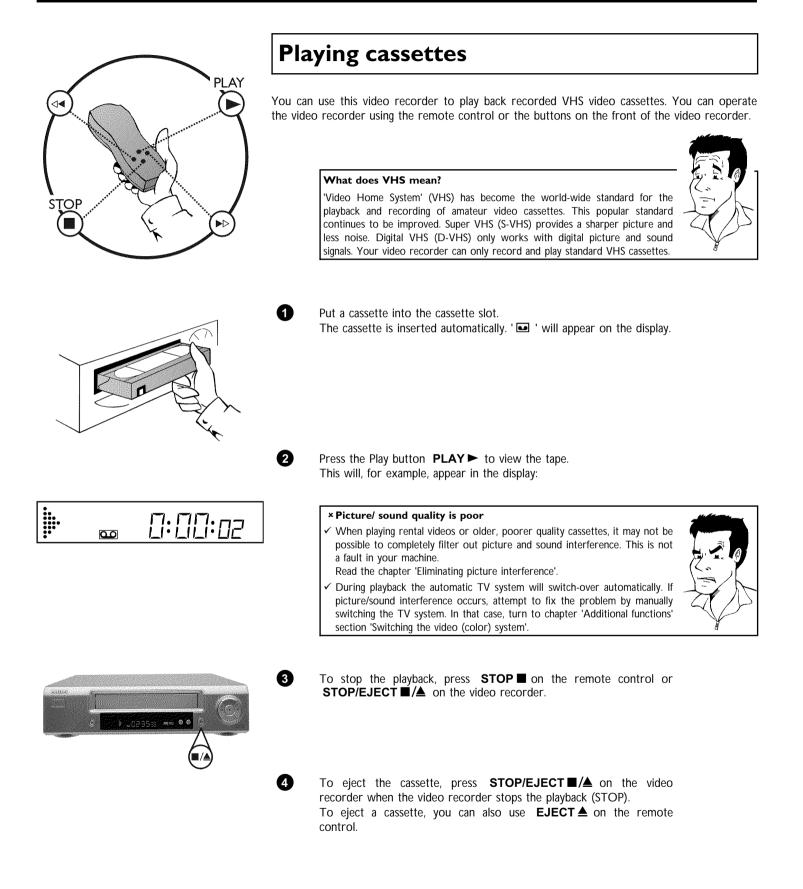
To enter or change your selection: with the number buttons 0-9 or with  $\leftarrow \bigtriangleup -$  or  $\bigtriangleup + \rightarrow$ .

To save or confirm: with OK

To cancel: with STANDBY/ON  $\circlearrowright$ .

To end: with MENU.





#### Automatic switch-off of special functions

Many functions (e.g. pause, still picture, search) switch themselves off automatically after a short time in order to protect the cassette and to save energy.



Do I need to change the playback speed when playing back LP recordings?

For playback, the correct recording speed 'SP' will automatically be selected. For more information, please read the section 'Selecting the recording speed (SP/LP)' in the chapter 'Manual recording'.

### Playing back NTSC cassettes

Cassettes that have been recorded in the NTSC standard (for example, American cassettes) can be played back using this video recorder. However, this only works on PAL-television sets which are suitable for a picture frequency of 60Hz.

When you play an NTSC cassette '50HZ' will appear on the display.

Some special features (for example, still picture) are not possible while you are playing an NTSC cassette.

#### Displaying current tape position

The display shows the tape position in hours, minutes and seconds. In addition, by pressing  $\mathbf{OK}$  you can show the present tape position on the TV screen.

The following information is displayed on the screen:

e.g.: 0:02:45 Shows the tape position in hours, minutes and seconds.

Moving/blinking arrow: This indicates the current tape position. The arrow moves in a line from left (tape start) to right (tape end).

'REMAIN 0:06': will show the actual amount of playing/recording time left on the tape in hours and minutes.

When you play an NTSC cassette, the video recorder will not show 'REMAINO:06'.



How can I set the counter to '0:00:00'?

You can set the counter to  $\Box:\Box\Box:\Box\Box$  using **CLEAR (CL)**. When you put a cassette in the machine, the counter will automatically reset to  $\Box:\Box\Box:\Box\Box$ .

#### \* The counter does not move

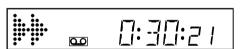
- This occurs when there are no recordings on a portion of a tape. Therefore, the video recorder cannot receive any information from the tape. This is not a fault in your machine.
- × The display/the screen shows '-□:□ 1:2□'
- ✓ If you rewind a cassette from the tape position '□:□□:□□', the counter will show for instance, '-□:□ 1:2□' (the cassette will be rewound to 1 minute and 20 seconds before '□:□□:□□:□□'.

#### \*'-:--' is displayed in the 'REMAIN' counter

✓ This counter will automatically recognise the length of the tape. In addition, when you put in a cassette the video recorder must first calculate the time played. Therefore, '-:--' appears first and only after the tape has been running for a few seconds will the correct playing time be shown.



## Searching for a tape position with picture (scanning)



While a cassette is playing, press ◀◀ (reverse) or ►▷ (forward) one or more times. This will, for example, appear in the display:

To stop at a certain place on the tape, press **PLAY**►.

#### Decreased picture quality

Scanning interferes with the picture quality. The sound is switched off. This is not a fault in your machine.

#### **Still picture**



During playback, press **STILL** ► to stop the tape and display a still picture. This will, for example, appear in the display:

Each time you press **STILL** I , the picture will advance one frame.

#### Interference stripes

Interference stripes may appear on the screen during still picture. This is normal and not a fault in your machine.



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To continue playback, press  $PLAY \triangleright$ .



## Searching for tape position without picture (forward wind and rewind)



- Press  $\triangleleft \blacktriangleleft$  (reverse) or  $\blacktriangleright \triangleright$  (forward). This will, for example, appear in the display:
- To stop at a certain place on the tape, press STOP  $\blacksquare$  .

Stop the tape with **STOP** .

#### **Instant View**

With this function you can switch to picture search during wind and rewind.



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If you hold  $\triangleleft \triangleleft$  (rewind) or  $\triangleright \triangleright$  (wind) during wind or rewind, you will switch to picture search.

As soon as you release the button, the video recorder will automatically switch back to rewind or wind.

## Automatic search for a tape position (index search)

Every time a tape is recorded an index marking is written on the tape. This marking can be compared with a bookmark. These marked positions can be found again quickly and easily later by pressing a button.



To search for the previous marking, press **INDEX**  $\blacktriangleright$  and then  $\triangleleft$ .



For the next marking, press **INDEX**  $\blacktriangleright$  and then  $\triangleright$ . This will, for example, appear in the display for the next marking.

As soon as the video recorder finds this marking, it automatically switches to playback.

## Automatic search for a blank space on the tape

You can search for space on the tape (at least 1 minute of blank tape) for a new recording, for example, after an existing recording on the tape.



Press **INDEX**  $\blacktriangleright$  . Then press **STOP**  $\blacksquare$  . This will, for example, appear in the display:

As soon as the video recorder finds the corresponding tape position, it automatically switches to pause.

#### × The cassette is ejected

✓ The video recorder was unable to find any blank space on the tape inserted.



Eliminating picture interference

#### **Optimising tracking**

This video recorder has an automatic tracking function. In order for the video heads to optimally read the video track of the newly inserted video cassette, the tape speed is slightly corrected automatically.

In some cases however, interference will still occur.

The following section will explain how to manually adjust the tracking settings.



While a cassette is playing, hold **P**↑+ until 'TRRE' (TRACking) appears in the display.



Hold down the buttons  $\mathbf{P} \bigstar \mathbf{P} \bigstar \mathbf{P}$  until the playback quality is at its best.



Wait a few seconds, until 'TRRE' disappears from the display.

These selected picture settings will not change until you eject the cassette.

### **Optimising still picture**

If the still picture vibrates vertically, you can improve the still picture as follows:



During still picture, hold  $\mathbf{P} \uparrow \rightarrow \mathbf{P} \downarrow -$  until the picture quality is at its best. "UTT" will appear in the display.



When you release the button, 'JIT' will disappear.

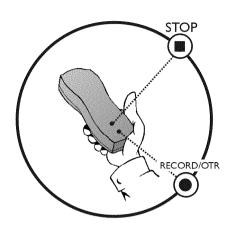
The video recorder will store these settings automatically.



✓ I cannot reach optimal quality for the still picture
 ✓ Interference which cannot be alleviated by this function can occur in cassettes of poor quality or camcorder cassettes.







### **G**eneral information

Use 'Manual Recording' to make a spontaneous recording (for example, a programme currently being shown).

If you want to start and stop a recording manually, read the section 'Recording without automatic switch-off'.

If you want to start a recording manually but have it stopped automatically, read the section **'Recording with automatic switch-off**'. (e.g. not to record to the end of the tape)

Read the section 'Direct record' if you want to record a programme currently being shown.

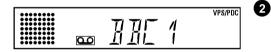
Read the section **'Automatic recording from a satellite receiver'**, if you want a recording to be controlled automatically by a satellite receiver.

### **Recording without automatic switch-off**

Insert a cassette.

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Use  $P^{+}$  or  $P^{+}$  to select the programme number you want to record, for example, 'P01'. This will appear on the display:

#### Station name

If a TV station transmits a station name, it will be shown in the display.

Programme numbers 'E 1' 'E2'

This programme number is provided for recording from external sources (via the scart socket  $\mbox{EXT.1}\ \mbox{AV}\ \mbox{1}$  ,  $\mbox{EXT.2}\ \mbox{AV}\ \mbox{2}$  ) .

To start recording, press **RECORD/OTR**  $\bullet$  on the remote control or **RECORD**  $\bullet$  on the video recorder. This will, for example, appear in the display:



#### Displaying tape position

Using **OK** you can show the tape position in the display.

Stop recording with  $STOP \blacksquare$ .

## ENGLISH

### **Recording with automatic switch-off** (OTR One-Touch-Recording)



Insert a cassette.

recording time.

Use  $\mathbf{P} \uparrow +$  or  $\mathbf{P} \downarrow -$  to select the programme number you want to record.



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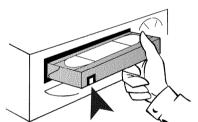
Press **RECORD/OTR** • on the remote control.

How can I clear the recording time just setted?

Each time you press RECORD/OTR • you will add 30 minutes to the recording time.

To delete an entry, press CLEAR (CL) while the display shows the





### Preventing accidental erasing of cassettes

All cassettes (except for rental and store cassettes) have a security tab on the back of the cassette (see arrow).

To prevent recording over important recordings (erasing), you can remove this security tab or slide it to the left.

If you later decide to record on a protected cassette, simply cover the hole with adhesive tape or slide the tab to the right.

### Lining up recordings (assemble cut)

When you add a further recording to a cassette, which already has a recording on it, a short blank (flicker) can appear between the old and the new recording or the picture itself can flicker. To help reduce these from occurring, proceed as follows:



Find the tape position of the old recording where you want to insert the new recording.



Look at the last minute of the old recording (playback).

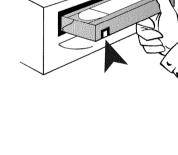
Press **STOP** on the remote control at the tape position where the new recording is to go. II ' will appear on the display.



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Now start recording as usual by pressing **RECORD/OTR** • on the remote control.

Stop recording with  $STOP \blacksquare$ .



### Selecting the recording speed (SP or LP)

You can reduce the recording speed by half. This makes it possible to record, for example, eight-hours instead of four-hours on an 'E240' (four-hour) cassette. For playback, the correct recording speed will automatically be selected.



Switch on the TV set. If required, select the programme number for the video recorder.



Press **MENU** on the remote control. The main menu will appear.



Select line 'RECORD SPEED' using  $\mathbf{P} \not\models -$  or  $\mathbf{P} \uparrow +$  and confirm with **OK**.



Select the required recording speed with  $\leftarrow \square -$  or  $\square + \rightarrow$ .

#### 'SP'/'LP'

'SP': Standard Play (normal recording speed) offers the usual first-class picture quality.



'LP': LongPlay (half recording speed, double recording time). 8 hours can be recorded on a 4 hour cassette (E240) with a somewhat reduced picture quality.



Confirm with OK .

To end, press MENU.

## Automatic controlled recording from a satellite receiver (RECORD LINK)

This function automatically starts recording on the switched-off video recorder when a video signal is recognised through the connected scart cable. If your satellite receiver has a programming function, the recording will start automatically (as long as the satellite receiver is switched on).



Switch on the TV set. If required, select the programme number for the video recorder.



Press **MENU** on the remote control. The main menu will appear.



Select line 'SPECIAL SETTINGS' using  $P \downarrow -$  or  $P \uparrow +$  and confirm with **OK**.



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- Select line 'RECORD LINK' using  $\mathbf{P} \downarrow -$  or  $\mathbf{P} \uparrow +$ .
- Select function 'ON' with  $\leftarrow \square -$  or  $\square + \rightarrow$



Switching off 'Record Link' To switch off the function, select '0FF'.

- 6 Confirm with **OK**.
- To end, press MENU.
- 8 Insert a cassette.
- 9 Use a scart cable to connect scart socket **EXT.2 AV 2** on the video recorder to the corresponding scart socket on the satellite receiver.
- Programme the satellite receiver with the required information (programme number of the TV channel, start time, end time). If necessary, please see the operating instructions for your satellite receiver.
- 11
  - Switch off the video recorder with  $\ensuremath{\text{STANDBY/ON}}\,\ensuremath{\mbox{$\mho$}}$  .

The video recorder is now ready to record. The beginning and end of the recording is controlled via scart socket **EXT.2 AV 2**. When this function is switched on, '&' will appear on the video recorder display.

SPECIAL SETTINGS

OSD CLOCK DISPLAY RECORD LINK REPEAT PLAY DIRECT RECORD

EXIT→MENU

ON OFF OFF OFF

STORE→0K

#### **'Direct Record'**

Can you record the right TV channel in seconds when the video recorder is switched off? No problem. If recording is started manually, the **switched-off** video recorder uses the current TV channel setted on the TV set.

You will find more information on how to switch 'Direct record' on or off in the next section 'Direct record'.

#### How does Direct Record work?

The video recorder compares the TV channel selected on the TV set with its stored TV channels via the scart cable. If the same TV channel is found, it switches the video recorder to the corresponding programme number and starts recording.



Please do not change the TV channel on the TV set during the search so as not to affect the process.



On the TV set, select the programme number you want make the recording from.

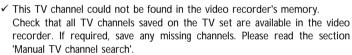


Press **RECORD/OTR** ● with the video recorder **switched off**.

#### **\***A 'search symbol' appears in the display (a moving symbol)

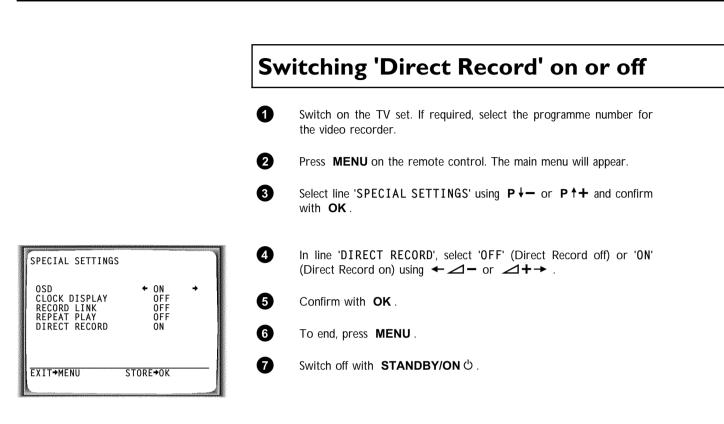
✓ The video recorder is comparing its saved TV channels with those of the TV set. Please do not change the TV channel on the TV set as long as the 'search symbol' (a moving symbol) is being displayed.

\* 'NOTV' appears in the display

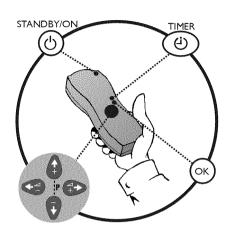




Stop recording with  $\ensuremath{\operatorname{STOP}}\xspace$  .







### **General information**

Use programmed recording to automatically start and stop a recording at a later date. The video recorder will switch to the right programme number and begin recording at the correct time. With this video recorder, you can pre-programme up to six recordings within a period of one month.

- To make a programmed recording, your video recorder needs to know:
- \* the date you want to make the recording
- \* the programme number of the TV channel
- \* the start and stop time of the recording

This information is saved in a 'TIMER block'.

#### What is 'VPS/PDC'?

'VPS' (Video Programming System)/ 'PDC'(Programme Delivery Control) are used to control the start and duration of TV channel recordings. If a TV programme starts earlier or ends later, the video recorder will then turn on and off and the correct time.

What do I need to know about 'VPS/PDC'?

You must enter the start time exactly to the minute.

If you want to programme a time that is different from the VPS or PDC time, you must switch off VPS or PDC.

Only one TV program of a TV channel can be controlled using 'VPS/PDC' at a time. If you want to record two or more TV programmes on a TV channel using 'VPS/PDC', you will need to programme these as two separate recordings.

## Programming a recording (with 'VIDEO Plus+')



Thanks to this programming system, you no longer need to tediously enter the date, programme number, start and end time. All the information needed for programming is contained in the PlusCode-programming number. This 9-digit PlusCode number is found in every TV listings magazine.



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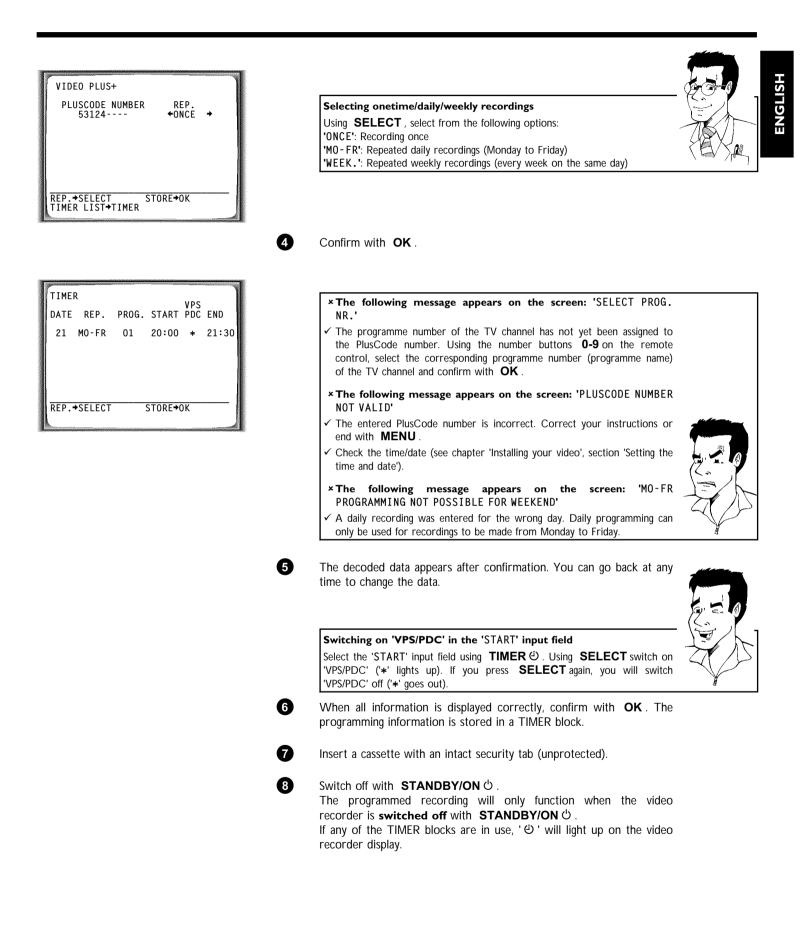
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Switch on the TV set. If required, select the programme number for the video recorder.

Press TIMER 🙂 on the remote control.

Enter the entire PlusCode number. This number is up to 9 digits long and can be found next to the start time of the TV programme in your TV listings magazine.
e.g. 5-234-89 or 5.234 89
Enter 523489 for the PlusCode number.
If you make a mistake, you can clear your instructions with CLEAR

(CL) .



## Problems and solutions for programmed recordings

PROBLEM	SOLUTION
The video recorder will not operate	イWhile a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press <b>STANDBY/ON</b> 也.
'SWITCH TO STANDBY- TIMER RECORDING' flashes on the TV screen	✓The video recorder was switched on several minutes before the start of a programmed recording. Switch off the video recorder with STANDBY/ON 心. A programmed recording (timer) will only function if the video recorder is switched off.
Cassette is ejected during recording	✓The end of the tape was reached during recording.
Error message: 'N0 CASSETTE' ଏ ' will flash in the video recorder display	√No cassette was inserted. Insert a cassette and switch off the video recorder using <b>STANDBY/ON</b> Ů.
Cassette was ejected as soon as the OK button was pressed	✓A cassette was inserted with the security tab removed. Undo the erase protection (chapter 'Manual Recording', section 'Preventing accidental erasing of cassettes') or insert a different cassette.
Error message: 'ALL TIMERS OCCUPIED'	✓If this error message appears after pressing <b>TIMER</b> $\textcircled{O}$ , then all TIMER blocks are already programmed. No more recordings can be programmed. If you want to clear a programmed recording (TIMER block), select it with <b>P</b> ↑+ or <b>P</b> ↓- and then press <b>CLEAR (CL)</b> .

## ENGLISH

## Programming a recording (without VIDEO Plus+)

Switch on the TV set. If required, select the programme number for the video recorder.



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(end time).

Press TIMER (2) on the remote control twice . A free TIMER block will be highlighted.

With **TIMER**  $\Theta$ ,  $\square + \rightarrow$  or  $\leftarrow \square -$  you can select 'DATE' (date), 'PROG.' (programme number), 'START' (start time) and 'END'

Press TIMER O. The information will appear on the screen.

Enter or change your information with  $\mathbf{P} \uparrow +$  or  $\mathbf{P} \downarrow -$ , or with the number buttons 0-9 on the remote control. Selecting onetime/daily/weekly recordings

In 'DATE' use **SELECT** to select from the following options: 'ONCE': Recording once 'MO-FR': Repeated daily recordings from Monday to Friday 'WEEK.': Repeated weekly recordings (every week on the same day)

Programme numbers of the ' $\mathcal{E}$  '' and ' $\mathcal{E}\mathcal{Z}$ ' scart socket You can also programme recordings from external sources via scart socket EXT.1 AV 1 ('E't') or EXT.2 AV 2 ('E?').



Select the 'START' input field using TIMER (2). Using SELECT switch on 'VPS/PDC' ('\*' lights up). If you press SELECT again, you will switch 'VPS/PDC' off ('+' goes out). When all information is displayed correctly, confirm with OK. The



programming information is stored in a TIMER block.

Insert a cassette with an intact security tab (unprotected).

'Switching on 'VPS/PDC' in the 'START' input field

TIME	ર			VDC	
DATE	REP.	PROG.	START	VPS PDC	END
21	MO-FR	01	20:00	*	21:30
REP.	SELECT		STORE +	)K	
					Л

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Switch off with **STANDBY/ON** O. The programmed recording will only function when the video recorder is **switched off** with **STANDBY/ON** O. If any of the TIMER blocks are in use, 'O' will light up on the video recorder display.

## Problem solving for programmed recordings

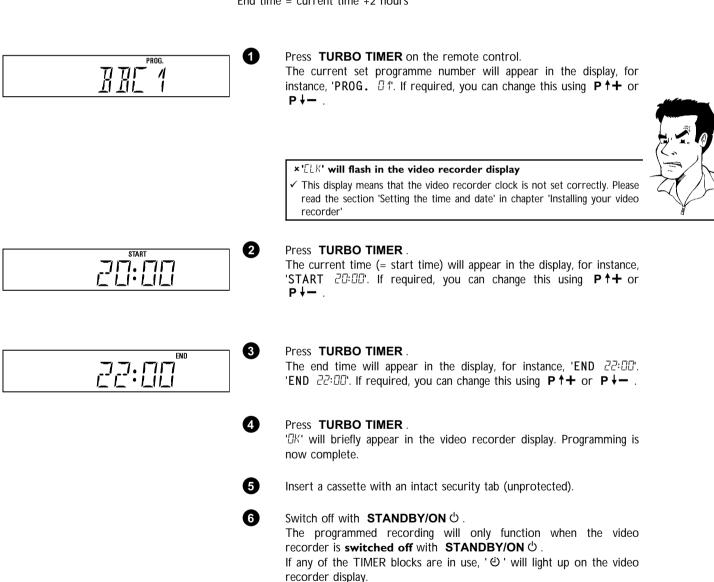
PROBLEM	SOLUTION
The video recorder does not react	Vhile a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press <b>STANDBY/ON</b> $\circ$ .
'SWITCH TO STANDBY- TIMER RECORDING' flashes on the TV screen	The video recorder was switched on several minutes before the start of a programmed recording. Switch off the video recorder with STANDBY/ON 心. A programmed recording (timer) will only function if the video recorder is switched off.
A cassette was automatically ejected during recording	✓The end of the tape was reached during recording.
Error message: 'N0 CASSETTE' ' එ ' will flash in the video recorder display	イNo cassette was inserted. Insert a cassette and switch off the video recorder using <b>STANDBY/ON</b> ひ.
The 'PROTECTED CASSETTE' error message appears briefly on the screen then the cassette is ejected	✓A cassette was inserted with the security tab removed. Undo the erase protection (chapter 'Manual Recording', section 'Preventing accidental erasing of cassettes') or insert a different cassette.
Error message: 'ALL TIMERS OCCUPIED'	✓If this error message appears after pressing <b>TIMER</b> $\textcircled{O}$ , then all TIMER blocks are already programmed. No more recordings can be programmed. If you want to clear or check a programmed recording (TIMER block), select it with <b>P</b> ↑+ or <b>P</b> ↓
The 'DATA ERROR' message appears on the screen	✓The data for the recording could not be transferred. Please check date, start time and end time of the programmed recording.

### Programming a recording with 'TURBO TIMER'

With this function, programming a recording that takes place within the next 24 hours, will be quick and easy. The following pre-set information will appear in the display when you programme a recording using 'TURBO TIMER'.

Programme number = the programme number currently selected (TV channel) Start time = current time

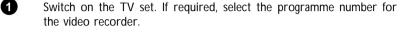
End time = current time +2 hours



## Problems and solutions for programmed recordings

PROBLEM	Solution
The video recorder does not react	✓While a programmed recording is being made, you cannot operate your video recorder manually. If you want to cancel the programmed recording, press <b>STANDBY/ON</b> <sup>(b)</sup> .
' එ ' will flash in the video recorder display	<ul> <li>The video recorder was switched on several minutes before the start of a programmed recording. Switch off the video recorder with STANDBY/ON ひ. A programmed recording (timer) will only function if the video recorder is switched off.</li> <li>No cassette was inserted. Insert a cassette and switch off the video recorder using STANDBY/ON ひ.</li> </ul>
Cassette is ejected during recording	✓The end of the tape was reached during recording.
The 'PROT' error message appears briefly in the display then the cassette is ejected	✓A cassette was inserted with the security tab removed. Undo the erase protection (chapter 'Manual Recording', section 'Preventing accidental erasing of cassettes') or insert a different cassette.
Error message: 'FULL'	✓If this error message appears after pressing TIMER ④, then all TIMER blocks are already programmed. No more recordings can be programmed. If you want to clear or check a programmed recording (TIMER block), select it with P↑+ or P↓

## How to check, change or delete a programmed recording (TIMER)





Select the programmed recording (TIMED) you want to check

Press TIMER (2) on the remote control twice .



Select the programmed recording (TIMER) you want to check, change or delete with  $P \downarrow -$  or  $P \uparrow +$ .

**Delete programmed recording** Press **CLEAR (CL)**. '--' appears rather than the displayed values To end, press **MENU**.



#### 4

#### Press TIMER 🙂 .

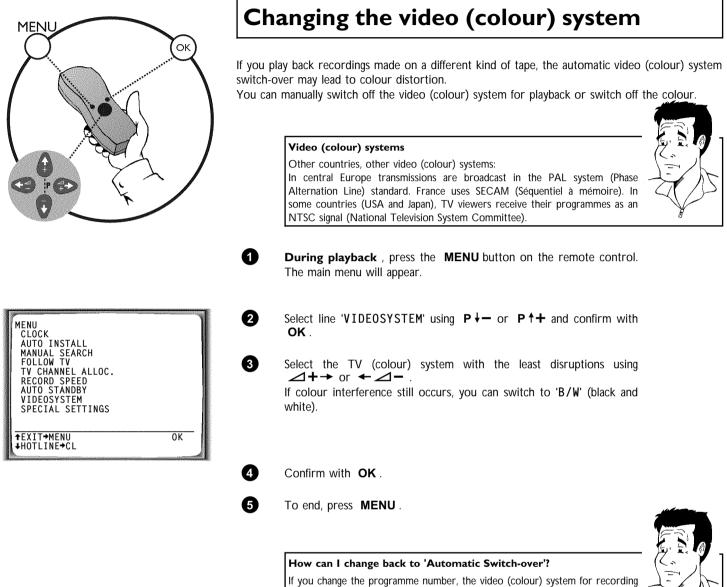
Select the input field with  $\leftarrow \bigtriangleup -$  or  $\bigtriangleup + \rightarrow$ . If required, change the information with  $P \uparrow +$ ,  $P \downarrow -$  or the number buttons **0-9**.



Confirm with OK.

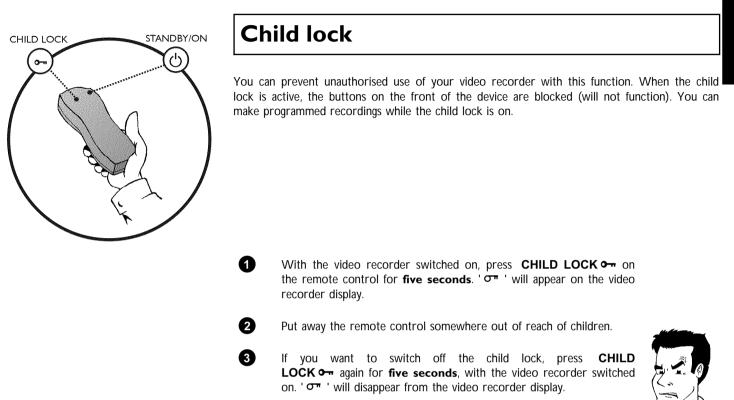
Switch off with STANDBY/ON 😃 .





will switch itself back to 'AUTO' (automatic switch-over). If you eject the cassette, the video (colour) system for playback will switch itself back to 'AUTO' (automatic switch-over).





×' סיי ' will flash in the video recorder display

 $\checkmark$  This symbol flashes when a button is pressed when the child lock is active.

ENU	Switching the on-screen display (OSD) off or on		
	Along with the on screen menu, the OSD (On Screen Display) also displays information on the current operating status (counter, playback, recording, TV channel, etc.) on the TV screen. You can switch off the information about the operating status so that the on screen display (OSD) is not recorded when copying video cassettes.		
	• Switch on the TV set. If required, select the programme number for the video recorder.		
	2 Press <b>MENU</b> on the remote control. The main menu will appear.		
	3 Select line 'SPECIAL SETTINGS' using $P \downarrow -$ or $P \uparrow +$ and confirm with <b>OK</b> .		
ECIAL SETTINGS SD ← ON →	4 In the line 'OSD', select the desired setting with $\triangle + \rightarrow$ .		
SD ← ON → LOCK DISPLAY OFF ECORD LINK OFF EPEAT PLAY OFF IRECT RECORD ON	Which settings can I choose? '0N': Shows the OSD for a few seconds only. '0FF': Switches off the OSD.		
IT+MENU STORE+OK	5 Confirm with OK.		

## Switch off the clock display

To save energy, you can switch off the clock display on the video recorder. Programmed (TIMER) recordings will still take place.



Switch on the TV set. If required, select the programme number for the video recorder.

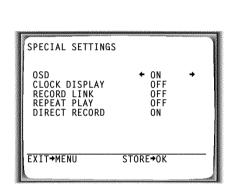


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Press **MENU** on the remote control. The main menu will appear.



Select the line 'SPECIAL SETTINGS' with  $P \downarrow -$  or  $P \uparrow +$  and confirm with **OK**.

To switch off the time display on the video recorder, select in the line 'CLOCK DISPLAY' with  $\checkmark + \Rightarrow$  'OFF'.



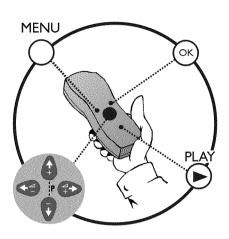
How can I switch on the clock display? Select with ← ∠ − 'ON' (time display switched on).

Confirm with **OK**.

'STORED' will briefly appear on the TV screen.



To end, press MENU.



## Continuous playback

This function can be used to play a cassette over and over again. When the end of the cassette is reached, the video recorder will rewind and start from the beginning again. This function is activated or deactivated as follows.

1 Press **MENU** on the remote control. The main menu will appear.

SPECIAL SETTINGS			1
OSD CLOCK DISPLAY RECORD LINK REPEAT PLAY DIRECT RECORD	← ON OFF OFF OFF ON	<b>→</b>	
EXIT+MENU	STORE→OK		

- Select line 'SPECIAL SETTINGS' using  $\mathbf{P} \uparrow +$  or  $\mathbf{P} \downarrow -$  and confirm with  $\mathbf{OK}$ .
- Select line 'REPEAT PLAY' using  $\mathbf{P} \uparrow \rightarrow \mathbf{P}$  or  $\mathbf{P} \downarrow \rightarrow$ .
- Select function 'ON' with  $\leftarrow \square -$  or  $\square + \rightarrow$ . If you select 'OFF', continuous playback will be switched off.
- Confirm with **OK**. 'STORED' will appear briefly on the screen.
- 6 To end, press **MENU**.
  - Insert a cassette.

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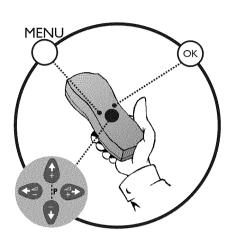
4

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8

Start the continuous playback with the **PLAY** ► playback button.



### Automatic switch-off

ENGLISH

If you haven't used the video recorder for a few minutes in certain modes (e.g.: STOP), it will switch to standby automatically. You can cancel this function to use the video recorder as a television receiver.

- **1** Switch on the TV set. If required, select the programme number for the video recorder.
- 2 Press **MENU** on the remote control. The main menu will appear.

3

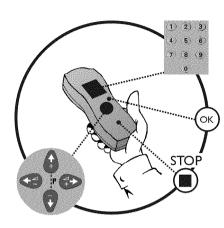
4

- Select line 'AUTO STANDBY' using  $P \downarrow -$  or  $P \uparrow +$ .
- Select 'OFF' (no automatic switch-off) or 'ON' (automatic switch-off) with the menu buttons  $\square + \rightarrow$  or  $\leftarrow \square -$ .
- 5 Confirm with **OK**. 'STORED' will briefly appear on the TV screen.



To end, press MENU.

## **10** Suppressing interference



### **Optimising the modulator**

In some reception locations it is possible that a TV channel will be sent on the same or similar frequency as the video recorder.

Result: As soon as the video recorder is switched on, the reception quality for this or several other TV channels will decreased.

The following steps will show you how to change the pre-set 'transmission' (modulator) frequency on the video recorder.

#### What is a modulator?

This electronic component in the video recorder allows the device to transmit audio and video signals via the aerial cable. These signals can be received TV set just like TV channels.

What is an modulator frequency?

This frequency or channel indicates the frequency or channel on which the audio or video signal is transmitted.

Switch on the TV set. Select the programme number used for video recorder playback (see TV operating instructions).

Press **STOP/EJECT** / to eject any cassette that might be in the device.

Press the **STOP** button on the remote control. Then press **STOP/EJECT**  $\blacksquare$  antil the pre-set modulator frequency, e.g. MSBB' appears in the display.

The video recorder will now transmit a test image on UHF channel 35/Frequency 583MHz.

OPTIMIZE MODULATOR OPTIMIZE FREQUENCY 583 → MODULATOR ON →



2

3

4

Select line 'OPTIMIZE FREQUENCY' using  $P \uparrow +$  or  $P \downarrow -$ . Enter the new modulator frequency with the number buttons **0-9**.



Can the modulator frequency be changed automatically? Pressing  $\checkmark$ + $\rightarrow$  starts the automatic channel search. When the video recorder finds a 'free' channel (not used be a TV channel), the frequency of this channel will be shown in the display.

Tune in the TV set to the new modulator frequency (channel 21 - 69) shown in the video recorder display.



Confirm with **OK**. 'STORED' will appear briefly on the screen.

Optimising the modulator is now complete.

### Switching the modulator on / off

If you cannot clear picture or sound interference despite optimisation, you can switch off the built-in modulator.

Warning:

this is only possible if you have connected the video recorder to the TV set with a scart cable. Without a scart cable you will not receive a picture from the video recorder on the TV set when the modulator is switched off.



3

4

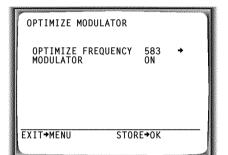
6

Switch on the TV set. If required, select the programme number for the video recorder.



Press **STOP/EJECT**  $\blacksquare$  / $\blacktriangle$  to eject any cassette that might be in the device.

Press the **STOP** button on the remote control. Then press **STOP/EJECT**  $\blacksquare$  until the set modulator frequency, e.g. 'M583' appears in the display.



- Select the line 'MODULATOR' on the TV screen or 'MDI+' in the display with  $P^+$  or  $P \downarrow -$ .
- Select 'OFF' on the TV screen with  $\leftarrow \square -$  or in the display 'MDI-' (modulator off).



How can I switch the modulator back on? In the display, select 'M□I+' (modulator on) with ← ∠ –

- 6 Confirm with **OK**.
  - To end, press MENU.

# Before you call an engineer

If, contrary to expectation, you have any problems using this video recorder, it may be caused by the following reasons.

You will find the phone number in the enclosed guarantee leaflet.

The telephone numbers can be found on the back of this instruction manual. Have the model number (MODEL NO) and the production number (PROD.NO.) of your video recorder ready.

## **HOTLINE** telephone numbers

The telephone numbers for after-sales service (HOTLINE) are also saved in your video recorder. To call them up, proceed as follows:



the video recorder.

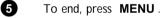
Switch on the TV set. If required, select the programme number for



Press **MENU**. The main menu appears.

Press **CLEAR (CL)**. The after-sales service telephone numbers will appear on the screen.





PROBLEM	SOLUTION
Your video recorder does not respond to any button being pressed:	<ul> <li>There is no power supply: check the power supply.</li> <li>A programmed recording is currently being made: if desired, cancel the programmed recording with STANDBY/ON ひ.</li> <li>Child lock active: switch the child lock off.</li> <li>There is a technical problem: disconnect from the mains power supply for 30 seconds, then connect again.</li> <li>If this doesn't help, you could reset your video recorder to the default factory settings.</li> </ul>
Resetting devices to default factory settings	<ul> <li>Attention:</li> <li>All the information stored (TV channels, time and date, TIMER) will be cleared.</li> <li>Disconnect from the mains power supply.</li> <li>Press and hold the STANDBY/ON O/I button on the device and reconnect to the mains power supply.</li> <li>Release the button when 'OSD' appears in the video recorder display.</li> </ul>
Cassette is jammed in the video recorder:	✓Don't use force. Pull out the mains plug for a moment.
Remote control does not work:	<ul> <li>✓Remote control not pointed toward the video recorder: point it at the video recorder.</li> <li>✓There is a technical problem: Take out the batteries, wait for 10 seconds and place them back.</li> <li>✓Batteries have run out: change the batteries.</li> </ul>
No picture when you play a cassette:	<ul> <li>There is no recording on the cassette: change the cassette.</li> <li>You have selected the wrong programme number on the TV for playing cassette: on the TV, select the correct programme number for the video recorder.</li> <li>The cable connecting the TV set and the video recorder has come loose: check the cable.</li> </ul>

ENGLISH

PROBLEM	SOLUTION
Poor picture quality when you play a cassette:	<ul> <li>✓Your TV set is not properly adjusted.</li> <li>✓The cassette is badly worn or of poor quality: use new cassette.</li> <li>✓Tracking is not properly adjusted: turn to chapter 'Eliminating picture interference' and read the section 'Optimising tracking'.</li> </ul>
No recording possible:	<ul> <li>The TV channel you want to record is not stored or you selected the wrong programme number: check TV channels stored.</li> <li>A cassette was inserted that does not have the security tab (cannot be used to record): Insert a cassette with an intact security tab or change cassette. For more information, please see the section 'Preventing accidental erasing of cassettes' in chapter 'Manual Recording'.</li> <li>'VPS/PDC' switched on but 'VPS/PDCtime' wrong: 'enter 'VPS/PDCtime exactly to the minute. Have your aerial checked.</li> </ul>
Programmed recording does not work:	<ul> <li>You have programmed the wrong time or date: check time and date.</li> <li>Check time and date. If time and date are wrong despite manual setting, you can switch 'SMART CLOCK' off. Please read the section 'Setting the time and date' in the chapter 'Installing your video recorder'.</li> <li>You have not set the TIMER properly: Check the programmed recordings (TIMER block).</li> <li>You have put in a cassette that cannot be recorded on: undo the erase protection on the cassette.</li> </ul>
The wrong TV channel was decoded (entered) after you programmed a recording using Video Plus+	<ul> <li>✓1. Enter the PlusCode programming number of the desired TV channel.</li> <li>2. Confirm with OK.</li> <li>3. Check the programme number/channel name in the 'PROG.' input field</li> <li>4. If this does not correspond to the desired TV channel, select the input field and change the programme number/channel name.</li> <li>5. Confirm with TIMER ☺).</li> </ul>
There is picture or sound interference on TV reception:	<ul> <li>✓Turn to chapter 'Suppressing interference' and read 'Optimising the modulator' and 'Switching on/off the modulator'.</li> <li>✓Have your aerial checked.</li> </ul>